CHI MEI
OPTOELECTRONICS CORP.

Issued Date: Oct. 22 , 2009
CMO Model No.: V315B6 -C02

Approval

TFT LCD Approval Specification
FUNAI MODELNO. TLCD10CME011
MODEL NO.:V315B6-C02

RoHS Verified

Customer: <u>FUNAI</u>

Approved by:

Note:

Approved By	TV Product Marketing & Management Div
	Chao-Chun Chung

Reviewed By	QRA Dept.	Product Development Div.
	Kc-Ko	WT Lin

Prepared By	LCD TV Marketing and Product Management Div.	
	CY Chang	Lee-Lee Chang

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Version2.0

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Record of Revision

Version	Date	Page (New)	Section	Description
Ver 2.0	Oct. 7,'09	All	All	Approval Specification was first issued.

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1.0   Handling Precautions

▪   The LCD panel is made of glass and may break or crack if dropped on a hard surface. It is
   necessary to handle it carefully.

▪   Since front polarizer is easily damaged, pay attention not to scratch it.

▪   When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth gently.

▪   Do not touch the front screen surface when assembling.

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2.0　General Description

This specification is applied to the Type V315B6 TFT/LCD cell. This cell is designed for a display unit for TV application.

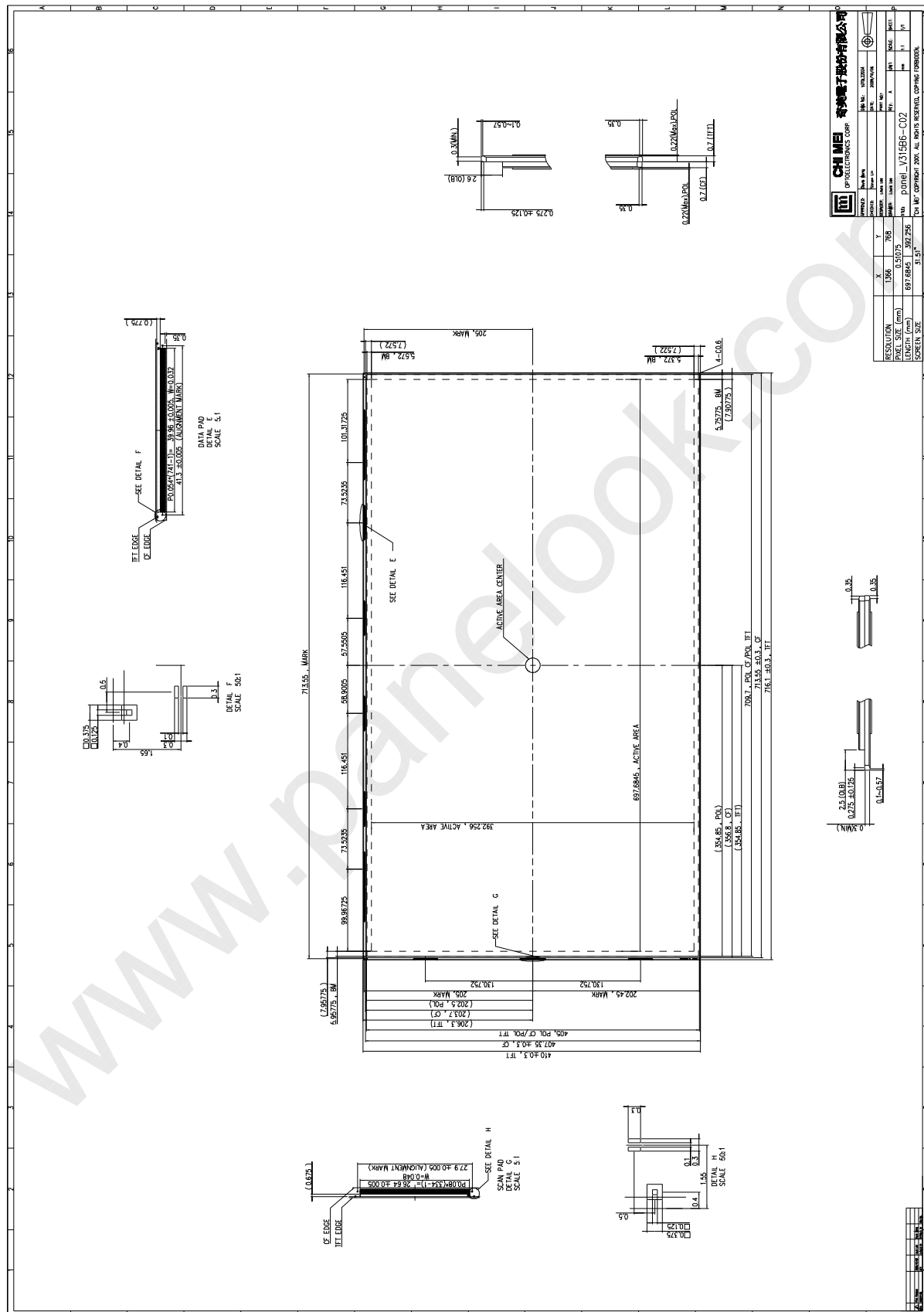The screen format is intended to support the WXGA (1366(H) x 768(V)) screen

2.1　Characteristics

CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal　[in]	31.5
Pixels　[lines]	1366×768
Active Area [mm]	697.6845 (H) x 392.256 (V)
Sub -Pixel Pitch　[mm]	0.17025(H) x 0.51075 (V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 1125g
Physical Size　[mm]	716(W) x 410.8(H) x 2.00(D) Typ.
Display Mode	Transmissive mode / Normally black
Contrast Ratio	(3000:1) Typ. (Typical value measured at CMO's module)
Glass thickness (Array/CF)　[mm]	0.7 / 0.7
Viewing Angle(CR>20)	+88/-88(H),+88/-88(V) Typ. (CR≥20) (Typical value measured at CMO's module)
Color White	Color Filter R=(0.642, 0.332) G=(0.277, 0.598) B=(0.145, 0.066) W=(0.285, 0.293) *White color is calibrated value measured at Color Filter by CMO's module
Cell Transparency　[％]	(5.8)%Typ. (Typical value measured at CMO's module)
Polarizer (CF side)	Wide View, Anti-glare coating, 709.7 (W) x 405 (H). Hardness: 3H
Polarizer (TFT side)	Wide View, 709.7 (W) x 405 (H)

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3.0   Cell Outline

The following figure shows cell outline.

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3.1　PAD Design

The following figure shows Data & Scan pad design.

〔 **Data Pad** 〕　　Unit〔mm〕

TFT EDGE
CF EDGE
SEE DETAIL F
(0.775)

P0.054*(741-1)= 39.96 ±0.005, W=0.032
41.3 ±0.005 (ALIGNMENT MARK)
0.35
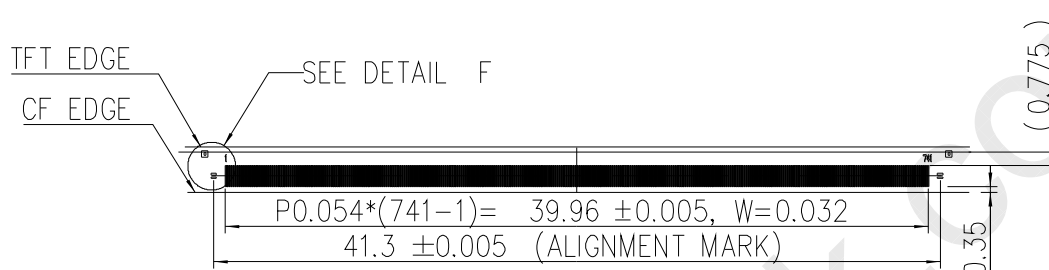
DATA PAD
DETAIL E
SCALE 5:1

□0.375
□0.125
0.5
0.4
1.65
0.3
0.1
0.3

DETAIL F
SCALE 50:1

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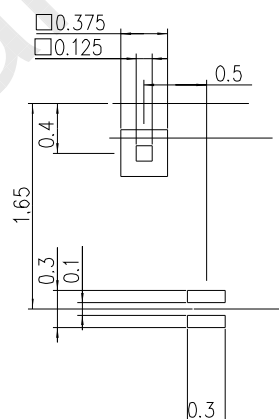
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〔 **Scan Pad** 〕   Unit〔㎜〕

CF EDGE

TFT EDGE

(0.675)

26.64 ±0.005

P0.08*(334−1)=

W=0.048

27.9 ±0.005 (ALIGNMENT MARK)

SEE DETAIL H

SCAN PAD
DETAIL G
SCALE 5:1

0.5

0.3

□0.375
□0.125

0.4

0.1

0.3

1.55

DETAIL H
SCALE 50:1

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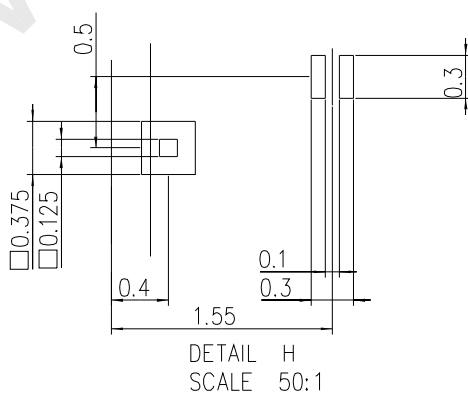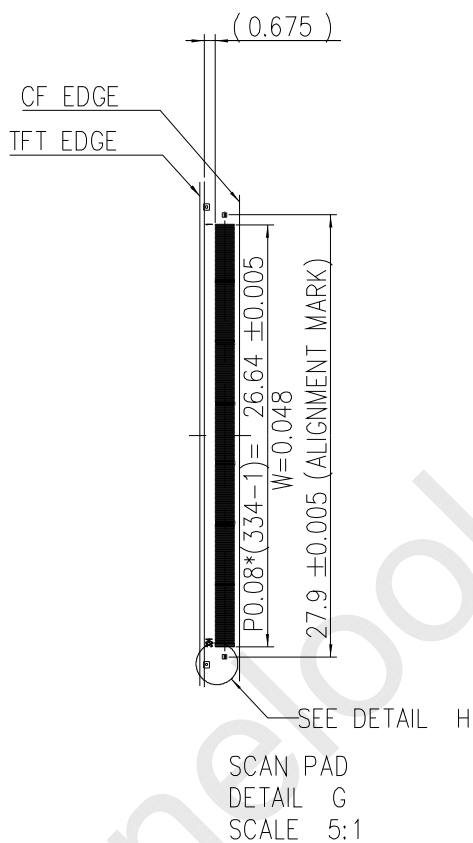
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3.2 OLB PAD Assignment
GATE

PIN	SCAN1 CELL	INPUT		PIN	SCAN2 CELL	INPUT		PIN	SCAN3 CELL	INPUT
1	ATST	TEST		1	ATST	TEST		1	ATST	TEST
2	ATST	TEST		2	ATST	TEST		2	ATST	TEST
3	RP1	NC		3	RP1	NC		3	RP1	NC
4	RP2	NC		4	RP2	NC		4	RP2	NC
5	VCOM	VCOM		5	VCOM	VCOM		5	VCOM	VCOM
6	VCOM	VCOM		6	VCOM	VCOM		6	VCOM	VCOM
7	STVR	STVR		7	STVR	STVR		7	STVR	STVR
8	LR	LR		8	LR	LR		8	LR	LR
9	XAO	XAO		9	XAO	XAO		9	XAO	XAO
10	OE	OE		10	OE	OE		10	OE	OE
11	CPV	CPV		11	CPV	CPV		11	CPV	CPV
12	STV1	STV1		12	STV1	STV1		12	STV1	STV1
13	MODE	MODE		13	MODE	MODE		13	MODE	MODE
14	VSS	VSS		14	VSS	VSS		14	VSS	VSS
15	VSS	VSS		15	VSS	VSS		15	VSS	VSS
16	VDD	VDD		16	VDD	VDD		16	VDD	VDD
17	VDD	VDD		17	VDD	VDD		17	VDD	VDD
18	VGL	VGL		18	VGL	VGL		18	VGL	VGL
19	VGL	VGL		19	VGL	VGL		19	VGL	VGL
20	VGL	VGL		20	VGL	VGL		20	VGL	VGL
21	VGL	VGL		21	VGL	VGL		21	VGL	VGL
22	DUMMY	NC		22	DUMMY	NC		22	DUMMY	NC
23	VGH	VGH		23	VGH	VGH		23	VGH	VGH
24	VGH	VGH		24	VGH	VGH		24	VGH	VGH
25	VGH	VGH		25	VGH	VGH		25	VGH	VGH
26	VGH	VGH		26	VGH	VGH		26	VGH	VGH
27	DUMMY	NC		27	DUMMY	NC		27	DUMMY	NC
28	VEE	VEE		28	VEE	VEE		28	VEE	VEE
29	VEE	VEE		29	VEE	VEE		29	VEE	VEE
30	VEE	VEE		30	VEE	VEE		30	VEE	VEE
31	DUMMY	NC		31	DUMMY	NC		31	DUMMY	NC
32	SCAN_0_NC	NC		32	SCAN_0_NC	NC		32	SCAN_0_NC	NC
33	SCAN_1_NC	NC		33	SCAN_1_NC	NC		33	SCAN_1_NC	NC
34	SCAN_2_NC	NC		34	SCAN_2_NC	NC		34	SCAN_2_NC	NC
35	SCAN_3_NC	NC		35	SCAN_3_NC	NC		35	SCAN_3_NC	NC
36	SCAN_4_NC	NC		36	SCAN_4_NC	NC		36	SCAN_4_NC	NC
37	SCAN_5_NC	NC		37	SCAN_5_NC	NC		37	SCAN_5_NC	NC
38	SCAN_6_NC	NC		38	SCAN_6_NC	NC		38	SCAN_6_NC	NC
39	SCAN_7_NC	NC		39	SCAN_7_NC	NC		39	SCAN_7_NC	NC
40	SCAN_8	S1		40	SCAN_8	S1		40	SCAN_8	S1
41	SCAN_9	S2		41	SCAN_9	S2		41	SCAN_9	S2
...	...	...		...	...	...		...	...	...
...	...	...		...	...	...		...	...	...
294	SCAN_262	S255		294	SCAN_262	S255		294	SCAN_262	S255
295	SCAN_263	S256		295	SCAN_263	S256		295	SCAN_263	S256
296	SCAN_264_NC	NC		296	SCAN_264_NC	NC		296	SCAN_264_NC	NC
297	SCAN_265_NC	NC		297	SCAN_265_NC	NC		297	SCAN_265_NC	NC
298	SCAN_266_NC	NC		298	SCAN_266_NC	NC		298	SCAN_266_NC	NC
299	SCAN_267_NC	NC		299	SCAN_267_NC	NC		299	SCAN_267_NC	NC
300	SCAN_268_NC	NC		300	SCAN_268_NC	NC		300	SCAN_268_NC	NC
301	SCAN_269_NC	NC		301	SCAN_269_NC	NC		301	SCAN_269_NC	NC
302	SCAN_270_NC	NC		302	SCAN_270_NC	NC		302	SCAN_270_NC	NC
303	SCAN_271_NC	NC		303	SCAN_271_NC	NC		303	SCAN_271_NC	NC
304	DUMMY	NC		304	DUMMY	NC		304	DUMMY	NC
305	VEE	VEE		305	VEE	VEE		305	DUMMY	NC
306	VEE	VEE		306	VEE	VEE		306	DUMMY	NC
307	VEE	VEE		307	VEE	VEE		307	DUMMY	NC
308	DUMMY	NC		308	DUMMY	NC		308	DUMMY	NC
309	VGH	VGH		309	VGH	VGH		309	DUMMY	NC
310	VGH	VGH		310	VGH	VGH		310	DUMMY	NC
311	VGH	VGH		311	VGH	VGH		311	DUMMY	NC
312	VGH	VGH		312	VGH	VGH		312	DUMMY	NC
313	DUMMY	NC		313	DUMMY	NC		313	DUMMY	NC
314	VGL	VGL		314	VGL	VGL		314	Date_Gate	VGL
315	VGL	VGL		315	VGL	VGL		315	Date_Gate	VGL
316	VGL	VGL		316	VGL	VGL		316	Date_Gate	VGL
317	VGL	VGL		317	VGL	VGL		317	Date_Gate	VGL
318	VDD	VDD		318	VDD	VDD		318	DUMMY	NC
319	VDD	VDD		319	VDD	VDD		319	DUMMY	NC
320	VSS	VSS		320	VSS	VSS		320	DUMMY	NC
321	VSS	VSS		321	VSS	VSS		321	DUMMY	NC
322	MODE	MODE		322	MODE	MODE		322	DUMMY	NC
323	STV2	STV2		323	STV2	STV2		323	STV2	STVR
324	CPV	CPV		324	CPV	CPV		324	DUMMY	NC
325	OE	OE		325	OE	OE		325	DUMMY	NC
326	XAO	XAO		326	XAO	XAO		326	DUMMY	NC
327	LR	LR		327	LR	LR		327	DUMMY	NC
328	STVR	STVR		328	STVR	STVR		328	STVR	STVR
329	VCOM	VCOM		329	VCOM	VCOM		329	VCOM	VCOM
330	VCOM	VCOM		330	VCOM	VCOM		330	VCOM	VCOM
331	RP2	NC		331	RP2	NC		331	RP2	NC
332	RP1	NC		332	RP1	NC		332	RP1	NC
333	ATST	TEST		333	ATST	TEST		333	ATST	TEST
334	ATST	TEST		334	ATST	TEST		334	ATST	TEST

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SIGNAL

DATA1

PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	RP1	NC
4	RP2	NC
5	VCOM	VCOM
6	VCOM	VCOM
7	STVR	STVR
8	LR	LR
9	XAO	XAO
10	OE	OE
11	CPV	CPV
12	STV1	STV1
13	MODE	MODE
14	VSS	VSS
15	VSS	VSS
16	VDD	VDD
17	VDD	VDD
18	DUMMY	NC
19	VGL	VGL
20	VGL	VGL
21	VGL	VGL
22	DUMMY	NC
23	VGH	VGH
24	VGH	VGH
25	VGH	VGH
26	DUMMY	NC
27	VEE	VEE
28	VEE	VEE
29	VEE	VEE
30	DUMMY	NC
31	VGL	VGL
32	VGL	VGL
33	DUMMY	NC
34	VCOM	VCOM
35	VCOM	VCOM
36	DUMMY	NC
37	VCOM	VCOM
38	VCOM	VCOM
39	REP	NC
40	DUMMY	NC
41	DUMMY	NC
42	DATA_1_NC	NC
43	DATA_2_NC	NC
44	DATA_3_NC	NC
45	DATA_4	D1
...	...	...
...	...	...
722	DATA_681	D678
723	DATA_682	D679
724	DATA_683	D680
725	DATA_684	D681
726	DUMMY	NC
727	DUMMY	NC
728	REP	NC
729	DUMMY	NC
730	VCOM	VCOM
731	VCOM	VCOM
732	DUMMY	NC
733	DUMMY	NC
734	DUMMY	NC
735	DUMMY	NC
736	DUMMY	NC
737	DUMMY	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

DATA2

PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	DUMMY	NC
4	DUMMY	NC
5	VCOM	VCOM
6	VCOM	VCOM
7	DUMMY	NC
8	DUMMY	NC
9	DUMMY	NC
10	DUMMY	NC
11	DUMMY	NC
12	DUMMY	NC
13	DUMMY	NC
14	DUMMY	NC
15	DUMMY	NC
16	DUMMY	NC
17	DUMMY	NC
18	DUMMY	NC
19	DUMMY	NC
20	DUMMY	NC
21	DUMMY	NC
22	DUMMY	NC
23	DUMMY	NC
24	DUMMY	NC
25	DUMMY	NC
26	DUMMY	NC
27	DUMMY	NC
28	DUMMY	NC
29	DUMMY	NC
30	DUMMY	NC
31	DUMMY	NC
32	DUMMY	NC
33	DUMMY	NC
34	VCOM	VCOM
35	VCOM	VCOM
36	DUMMY	NC
37	VCOM	VCOM
38	VCOM	VCOM
39	REP	NC
40	DUMMY	NC
41	DUMMY	NC
42	DATA_1	D1
43	DATA_2	D2
44	DATA_3	D3
45	DATA_4	D4
...	...	...
...	...	...
722	DATA_681	D681
723	DATA_682	D682
724	DATA_683	D683
725	DATA_684	D684
726	DUMMY	NC
727	DUMMY	NC
728	REP	NC
729	DUMMY	NC
730	VCOM	VCOM
731	VCOM	VCOM
732	DUMMY	NC
733	DUMMY	NC
734	DUMMY	NC
735	DUMMY	NC
736	DUMMY	NC
737	DUMMY	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

DATA3

PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	DUMMY	NC
4	DUMMY	NC
5	VCOM	VCOM
6	VCOM	VCOM
7	DUMMY	NC
8	DUMMY	NC
9	DUMMY	NC
10	DUMMY	NC
11	DUMMY	NC
12	DUMMY	NC
13	DUMMY	NC
14	DUMMY	NC
15	DUMMY	NC
16	DUMMY	NC
17	DUMMY	NC
18	DUMMY	NC
19	DUMMY	NC
20	DUMMY	NC
21	DUMMY	NC
22	DUMMY	NC
23	DUMMY	NC
24	DUMMY	NC
25	DUMMY	NC
26	DUMMY	NC
27	DUMMY	NC
28	DUMMY	NC
29	DUMMY	NC
30	DUMMY	NC
31	DUMMY	NC
32	DUMMY	NC
33	DUMMY	NC
34	VCOM	VCOM
35	VCOM	VCOM
36	DUMMY	NC
37	VCOM	VCOM
38	VCOM	VCOM
39	REP	NC
40	DUMMY	NC
41	DUMMY	NC
42	DATA_1	D1
43	DATA_2	D2
44	DATA_3	D3
45	DATA_4	D4
...	...	...
...	...	...
722	DATA_681	D681
723	DATA_682	D682
724	DATA_683	D683
725	DATA_684	D684
726	DUMMY	NC
727	DUMMY	NC
728	REP	NC
729	DUMMY	NC
730	VCOM	VCOM
731	VCOM	VCOM
732	DUMMY	NC
733	DUMMY	NC
734	DUMMY	NC
735	DUMMY	NC
736	DUMMY	NC
737	DUMMY	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

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DATA4			DATA5			DATA6		
PIN	CELL	INPUT	PIN	CELL	INPUT	PIN	CELL	INPUT
1	ATST	TEST	1	ATST	TEST	1	ATST	TEST
2	ATST	TEST	2	ATST	TEST	2	ATST	TEST
3	DUMMY	NC	3	DUMMY	NC	3	DUMMY	NC
4	DUMMY	NC	4	DUMMY	NC	4	DUMMY	NC
5	VCOM	VCOM	5	VCOM	VCOM	5	VCOM	VCOM
6	VCOM	VCOM	6	VCOM	VCOM	6	VCOM	VCOM
7	DUMMY	NC	7	DUMMY	NC	7	DUMMY	NC
8	DUMMY	NC	8	DUMMY	NC	8	DUMMY	NC
9	DUMMY	NC	9	DUMMY	NC	9	DUMMY	NC
10	DUMMY	NC	10	DUMMY	NC	10	DUMMY	NC
11	DUMMY	NC	11	DUMMY	NC	11	DUMMY	NC
12	DUMMY	NC	12	DUMMY	NC	12	DUMMY	NC
13	DUMMY	NC	13	DUMMY	NC	13	DUMMY	NC
14	DUMMY	NC	14	DUMMY	NC	14	DUMMY	NC
15	DUMMY	NC	15	DUMMY	NC	15	DUMMY	NC
16	DUMMY	NC	16	DUMMY	NC	16	DUMMY	NC
17	DUMMY	NC	17	DUMMY	NC	17	DUMMY	NC
18	DUMMY	NC	18	DUMMY	NC	18	DUMMY	NC
19	DUMMY	NC	19	DUMMY	NC	19	DUMMY	NC
20	DUMMY	NC	20	DUMMY	NC	20	DUMMY	NC
21	DUMMY	NC	21	DUMMY	NC	21	DUMMY	NC
22	DUMMY	NC	22	DUMMY	NC	22	DUMMY	NC
23	DUMMY	NC	23	DUMMY	NC	23	DUMMY	NC
24	DUMMY	NC	24	DUMMY	NC	24	DUMMY	NC
25	DUMMY	NC	25	DUMMY	NC	25	DUMMY	NC
26	DUMMY	NC	26	DUMMY	NC	26	DUMMY	NC
27	DUMMY	NC	27	DUMMY	NC	27	DUMMY	NC
28	DUMMY	NC	28	DUMMY	NC	28	DUMMY	NC
29	DUMMY	NC	29	DUMMY	NC	29	DUMMY	NC
30	DUMMY	NC	30	DUMMY	NC	30	DUMMY	NC
31	DUMMY	NC	31	DUMMY	NC	31	DUMMY	NC
32	DUMMY	NC	32	DUMMY	NC	32	DUMMY	NC
33	DUMMY	NC	33	DUMMY	NC	33	DUMMY	NC
34	VCOM	VCOM	34	VCOM	VCOM	34	VCOM	VCOM
35	VCOM	VCOM	35	VCOM	VCOM	35	VCOM	VCOM
36	DUMMY	NC	36	DUMMY	NC	36	DUMMY	NC
37	VCOM	VCOM	37	VCOM	VCOM	37	VCOM	VCOM
38	VCOM	VCOM	38	VCOM	VCOM	38	VCOM	VCOM
39	REP	NC	39	REP	NC	39	REP	NC
40	DUMMY	NC	40	DUMMY	NC	40	DUMMY	NC
41	DUMMY	NC	41	DUMMY	NC	41	DUMMY	NC
42	DATA_1	D1	42	DATA_1	D1	42	DATA_1	D1
43	DATA_2	D2	43	DATA_2	D2	43	DATA_2	D2
44	DATA_3	D3	44	DATA_3	D3	44	DATA_3	D3
45	DATA_4	D4	45	DATA_4	D4	45	DATA_4	D4
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
722	DATA_681	D681	722	DATA_681	D681	722	DATA_681	D681
723	DATA_682	D682	723	DATA_682	D682	723	DATA_682_NC	NC
724	DATA_683	D683	724	DATA_683	D683	724	DATA_683_NC	NC
725	DATA_684	D684	725	DATA_684	D684	725	DATA_684_NC	NC
726	DUMMY	NC	726	DUMMY	NC	726	DUMMY	NC
727	DUMMY	NC	727	DUMMY	NC	727	DUMMY	NC
728	REP	NC	728	REP	NC	728	REP	NC
729	DUMMY	NC	729	DUMMY	NC	729	DUMMY	NC
730	VCOM	VCOM	730	VCOM	VCOM	730	VCOM	VCOM
731	VCOM	VCOM	731	VCOM	VCOM	731	VCOM	VCOM
732	DUMMY	NC	732	DUMMY	NC	732	SCAN-Gate	VGL
733	DUMMY	NC	733	DUMMY	NC	733	DUMMY	NC
734	DUMMY	NC	734	DUMMY	NC	734	G1	NC
735	DUMMY	NC	735	DUMMY	NC	735	G2	NC
736	DUMMY	NC	736	DUMMY	NC	736	RP2	NC
737	DUMMY	NC	737	DUMMY	NC	737	RP1	NC
738	VCOM	VCOM	738	VCOM	VCOM	738	VCOM	VCOM
739	VCOM	VCOM	739	VCOM	VCOM	739	VCOM	VCOM
740	ATST	TEST	740	ATST	TEST	740	ATST	TEST
741	ATST	TEST	741	ATST	TEST	741	ATST	TEST

Note1: NC is CMO reserve.

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3.3   Operating condition

The following table describes operating condition at CMO cell inspection

Item		Cell Inspection Condition
Gate	Vgh	23.0V
	Vgl	-5.5V
	dGS	-1.2us
	dTg1	4.7us
	Tg(Gate On Time)	14.8us
	Tcrg(Writing Time)	14.8us
Frame Frequency		60Hz
Signal	(Black) Vsig Center	8.78V
	(White) Vsig Center	8.74V
Common	Vcom Center	8.1V
	Vcom Amplitude	0.00V
	Vcom Adjustment	±0.5V
LC	(Black)	0.77V
	(White)	8.14V

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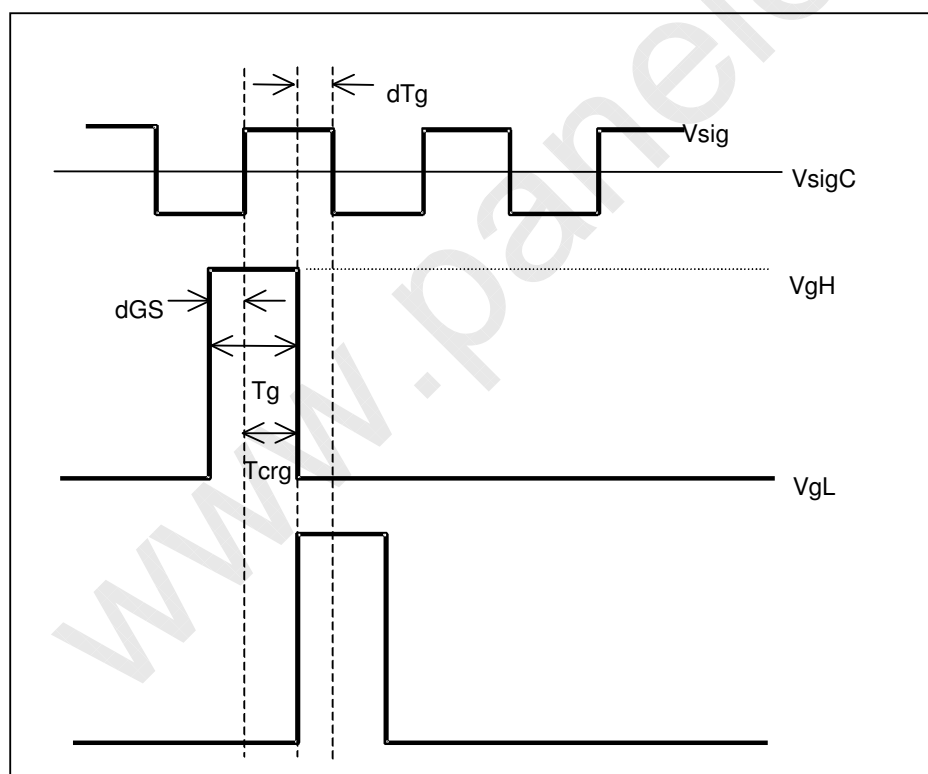
4.0 ABSOLUTE RATINGS OF ENVIRONMENT

4.1 ABSOLUTE RATINGS OF ENVIRONMENT(BASED on LCD MODULE V315B6-L01)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	T_{ST}	-20	+60	ºC	(1)
Operating Ambient Temperature	T_{OP}	0	+50	ºC	(1), (2), (3)

Note (1) Temperature and relative humidity range is shown in the figure below.

(a) 90 %RH Max. (Ta $\leqq$ 40 ºC).

(b) Wet-bulb temperature should be 39 ºC Max. (Ta > 40 ºC).

(c) No condensation.

Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 ºC with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 65 ºC. The range of operating temperature may degrade in case of improper thermal management in final product design.

Note (3) The rating of environment is based on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.
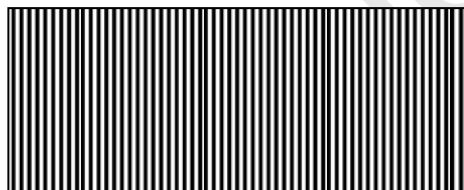
Relative Humidity (%RH)

Temperature (ºC)

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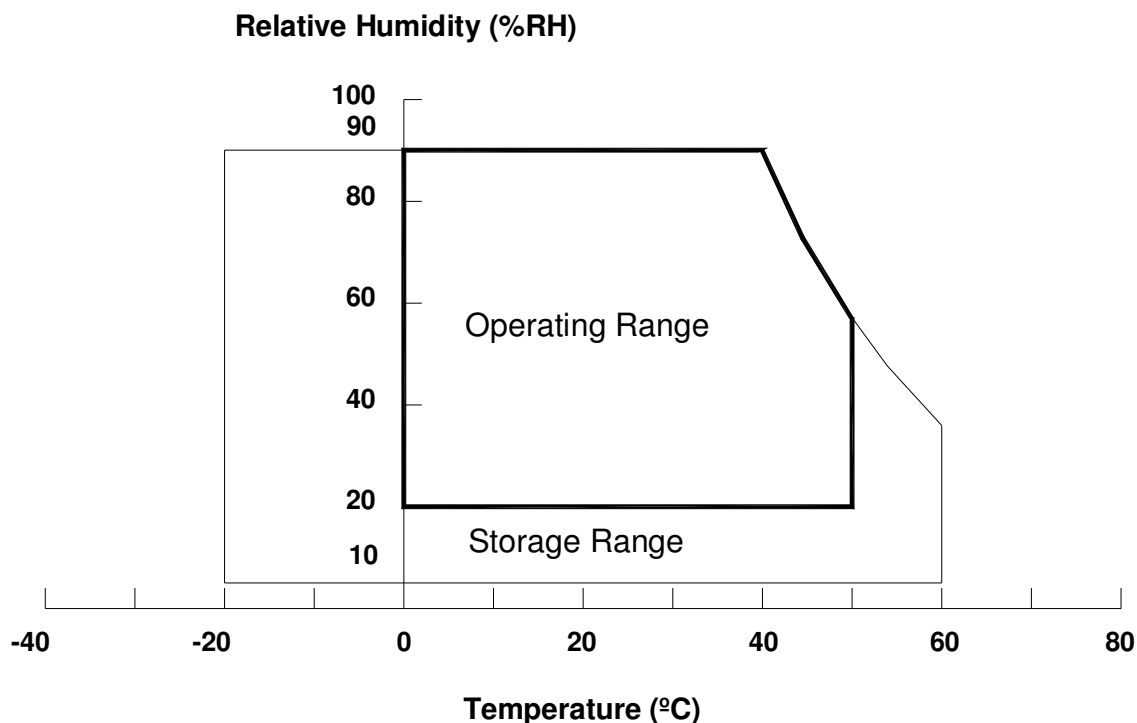
5.0 Packaging

5.1 Label

5.1.1 PANEL LABEL

T6243036NY01

5.1.2 DENSE BOX AND CARTON LABEL

Model Name	V315B6-C02
Panel Type	315WX01
Quantity	22
Case ID	(CMO internal define)
Note1	Funai model no.:TLCD10CME011

XXXXXXXXXXXXXXXX

5.2 PACKING SPECIFICATIONS

    (1) 22 LCD TV Panels / 1 Box

    (2) Dense box dimensions : 810(L) X 510 (W) X 156 (H)

    (3) Weight : approximately 33.5Kg (22 panels per box)

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5.3 PACKING METHOD

Figures 5-1 and 5-2 are the packing method

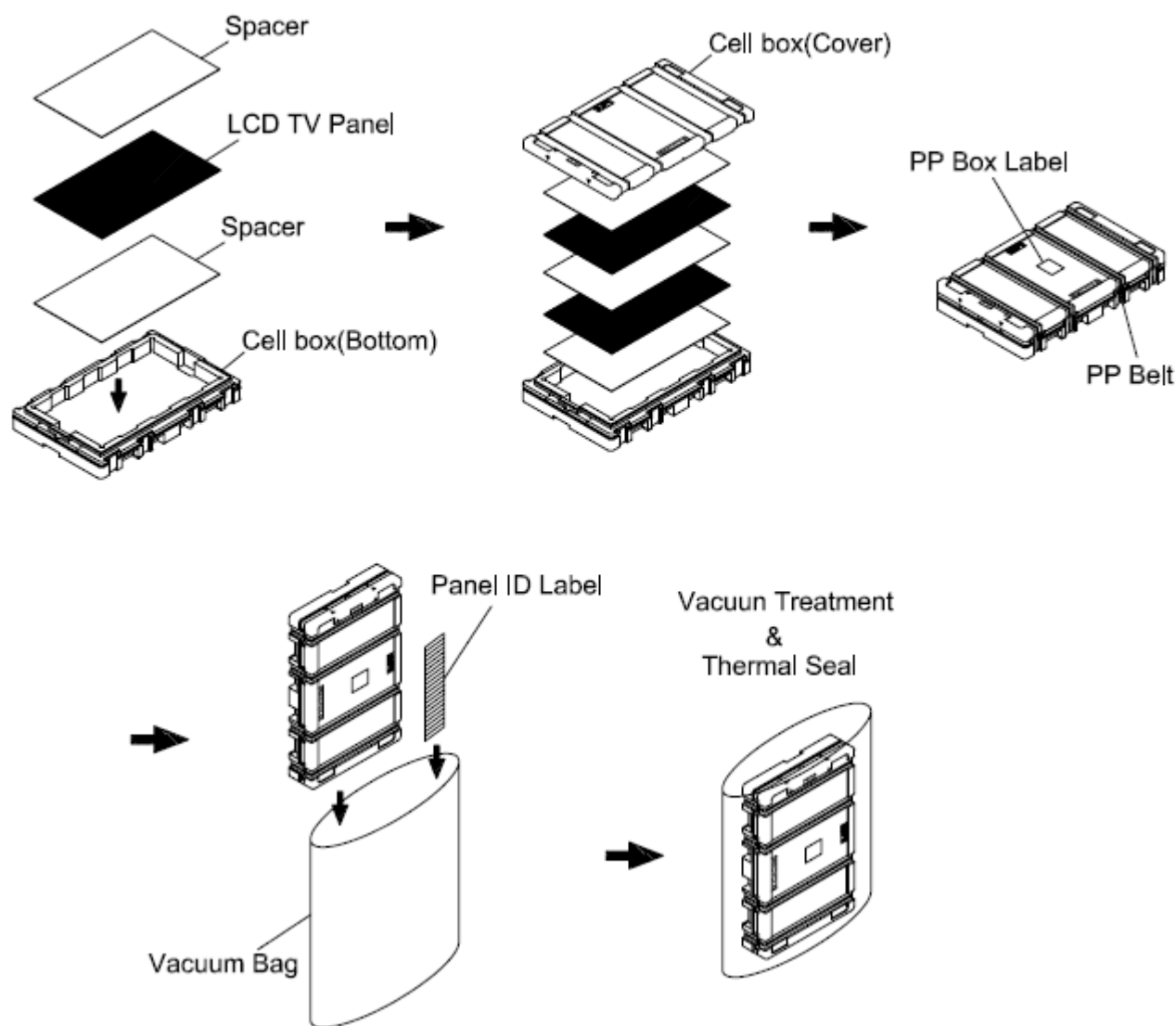Box dimensions: 815(L)x510(W)x156(H)mm
Weight：Approx.33.5Kg(22 panels per box)

Figure.5-1 packing method

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Weight : Approx.554 Kg(308 panels per Steel)
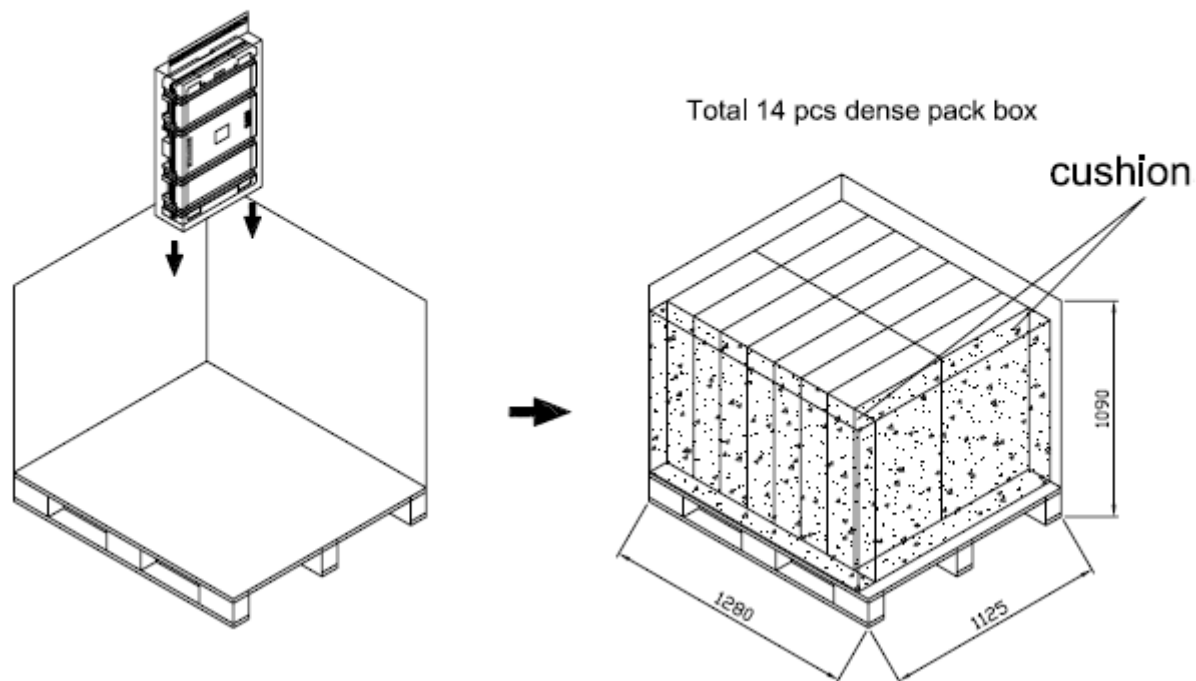
Figure.5-2 packing method

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6.0   Others

If any doubt arises in relation to items not defined in this agreement or any articles in this agreement, both parties shall discuss it with sincerity and arrive at a mutual decision.

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